



WHI Baseline and Follow-Up Data
Form 60b - Vitamins, Minerals & Carotenoids

Data File: f60b_os_pub **File Date:** 08/03/2007 **Structure:** Multiple rows per participant **Population:** OS participants

Participant ID

Variable # 1

Sas Name: ID

Sas Label: Participant ID

Type: Continuous

Usage Notes: none

Categories: Study: Administration

F60 Days since randomization/enrollment

Variable # 2

Sas Name: F60DAYS

Sas Label: F60 Days since randomization/enrollment

Type: Continuous

Usage Notes: none

Categories: Study: Administration

F60 Visit type

Variable # 3

Sas Name: F60VTYP

Sas Label: Visit type

Type: Categorical

Usage Notes: none

Categories: Study: Administration

Values

1	Screening Visit
2	Semi-Annual Visit
3	Annual Visit
4	Non-Routine Visit

F60 Visit year

Visit year for which this form was collected.

Variable # 4

Sas Name: F60VY

Sas Label: Visit year

Type: Continuous

Usage Notes: none

Categories: Study: Administration

F60 Closest to visit within visit type and year

For forms entered with the same visit type and year, indicates the one closest to that visit's target date. Valid for forms entered with an annual or semi-annual visit type.

Variable # 5

Sas Name: F60VCLO

Sas Label: Closest to visit within visit type and year

Type: Categorical

Usage Notes: See data preparation document

Categories: Study: Administration

Values

0	No
1	Yes

**Form 60b - Vitamins, Minerals & Carotenoids****Data File:** f60b_os_pub**File Date:** 08/03/2007**Structure:** Multiple rows per participant**Population:** OS participants**F60 Expected for visit**

This form/data was expected for this visit. Form 60 (FFQ) was expected at Baseline for all CT and OS, for all DM at year 1, for all OS at year 3, and for a subsample of DM in other years.

Variable # 6**Usage Notes:** none**Sas Name:** F60EXPC**Categories:** Study: Administration**Sas Label:** Expected for visit**Type:** Categorical**Values**

0	No
1	Yes

Analysis exclusion consideration status**Variable #** 7**Usage Notes:** May want to consider excluding participants with a status of 1 or 2 from analyses. The FFQ is suspect in light of the very low or very high value for the Energy (kcal) result.**Sas Name:** STATUS**Categories:** Computed Variables
Diet: FFQ**Sas Label:** Analysis exclusion consideration status**Type:** Categorical**Values**

1	Energy < 600 kcal consider excluding from analyses
2	Energy > 5000 kcal consider excluding from analyses
3	600 kcal <= Energy <= 5000 kcal

Dietary Vitamin A (RAE)

Vitamin A as retinol activity equivalents (RAE)

Variable # 8**Usage Notes:** The 2001 Dietary Reference Intakes (DRI) from the Food and Nutrition Board, Institute of Medicine, National Academy of Sciences give the recommendations using the units Retinol Activity Equivalents (µg/day RAE). Thus, when reporting total vitamin A (food + supplements) RAE is the preferred unit of measure.**Sas Name:** F60VITA

RAE Vitamin A = mcg retinol + (mcg beta-carotene equivalents/12)

Sas Label: Dietary Vitamin A (RAE)**Type:** Continuous1 RAE (retinol activity equivalent):
= 1 mcg all trans retinol
= 2 mcg supplemental all trans beta-carotene
= 12 mcg of dietary all trans beta-carotene
= 24 mcg of other pro-vitamin A carotenoids (alpha-carotene and beta-cryptoxanthin)

Note that beta-carotene equivalents = mcg beta-carotene + 1/2(mcg alpha-carotene + mcg beta-cryptoxanthin). Alpha carotene and beta-cryptoxanthin have about half the activity as beta-carotene.

Categories: Computed Variables
Diet: FFQ

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Dietary Vitamin A (IU)

Total Vitamin A in International Units

Variable # 9**Sas Name:** F60VITAIU**Sas Label:** Dietary Vitamin A (IU)**Type:** Continuous**Usage Notes:** Historically, International Units were the first measure to combine retinol (preformed vitamin A) and vitamin A from carotenoids into a single measure. While International Units is no longer the preferred unit for dietary assessment it is still included in the dataset because dietary supplement labels still use this terminology.

IU vitamin A = (mcg retinol/0.3) + (mcg beta-carotene equivalents/0.6)

Categories: Computed Variables
Diet: FFQ

Dietary Vitamin A (mcg RE)

Total vitamin A in retinol equivalents (RE)

Variable # 10**Sas Name:** F60VITARE**Sas Label:** Dietary Vitamin A (mcg RE)**Type:** Continuous**Usage Notes:** Retinol equivalents (RE) overestimate the amount of vitamin A activity from carotenoids.

RE Vitamin A = mcg retinol + (mcg beta-carotene equivalents/6)

Categories: Computed Variables
Diet: FFQ

Dietary Retinol (mcg)**Variable #** 11**Sas Name:** F60RETIN**Sas Label:** Dietary Retinol (mcg)**Type:** Continuous**Usage Notes:** Dietary Retinol (mcg) is preformed vitamin A found only in animal products as all-trans retinol. 1 mcg provides the equivalent of 1 mcg RE or RAE or 3.33 IU. The Dietary Retinol (mcg) variable is acceptable to use if there is interest ONLY in all-trans retinol from animal products.**Categories:** Computed Variables
Diet: FFQ

Dietary Thiamin (mg)**Variable #** 12**Sas Name:** F60THIAM**Sas Label:** Dietary Thiamin (mg)**Type:** Continuous**Usage Notes:** none**Categories:** Computed Variables
Diet: FFQ

Dietary Riboflavin (mg)**Variable #** 13**Sas Name:** F60RIBO**Sas Label:** Dietary Riboflavin (mg)**Type:** Continuous**Usage Notes:** none**Categories:** Computed Variables
Diet: FFQ

Dietary Niacin (mg)**Variable #** 14**Sas Name:** F60NIACN**Sas Label:** Dietary Niacin (mg)**Type:** Continuous**Usage Notes:** none**Categories:** Computed Variables
Diet: FFQ



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Dietary Niacin Equivalents (mg)

Variable # 15

Usage Notes: none

Sas Name: F60NICNEQ

Sas Label: Dietary Niacin Equivalents (mg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

Dietary Pantothenic Acid (mg)

Variable # 16

Usage Notes: none

Sas Name: F60PANTO

Sas Label: Dietary Pantothenic Acid (mg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

Dietary Vitamin B6 (mg)

Variable # 17

Usage Notes: none

Sas Name: F60VITB6

Sas Label: Dietary Vitamin B6 (mg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

Dietary Vitamin B12 (mcg)

Variable # 18

Usage Notes: none

Sas Name: F60VB12

Sas Label: Dietary Vitamin B12 (mcg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

Dietary Folacin (mcg)

Variable # 19

Usage Notes: none

Sas Name: F60FOLA

Sas Label: Dietary Folacin (mcg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

Dietary Folate Equivalents (mcg)

Variable # 20

Usage Notes: none

Sas Name: F60FLDEQ

Sas Label: Dietary Folate Equivalents (mcg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

Dietary Natural Folate (food folate) (mcg)

Variable # 21

Usage Notes: none

Sas Name: F60FLNAT

Sas Label: Dietary Natural Folate (food folate) (mcg)

Categories: Computed Variables
Diet: FFQ

Type: Continuous

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Dietary Synthetic Folate (folic acid) (mcg)**Variable #** 22**Usage Notes:** none**Sas Name:** F60FLSYN**Sas Label:** Dietary Synthetic Folate (folic acid) (mcg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Vitamin C (mg)**Variable #** 23**Usage Notes:** none**Sas Name:** F60VITC**Sas Label:** Dietary Vitamin C (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Vitamin D (mcg)**Variable #** 24**Usage Notes:** none**Sas Name:** F60VITD**Sas Label:** Dietary Vitamin D (mcg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Vitamin E (IU)**Variable #** 25**Usage Notes:** none**Sas Name:** F60VTEIU**Sas Label:** Dietary Vitamin E (IU)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Alpha-Tocopherol (mg)**Variable #** 26**Usage Notes:** none**Sas Name:** F60ATOCO**Sas Label:** Dietary Alpha-Tocopherol (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Total Alpha-Toc Eq (mg)**Variable #** 27**Usage Notes:** none**Sas Name:** F60VITE**Sas Label:** Dietary Total Alpha-Toc Eq (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Natural Alpha-Tocopherol (mg)**Variable #** 28**Usage Notes:** none**Sas Name:** F60NATOC**Sas Label:** Dietary Natural Alpha-Tocopherol (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

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Dietary Synthetic Alpha-Tocopherol (mg)**Variable #** 29**Usage Notes:** none**Sas Name:** F60STOCO**Sas Label:** Dietary Synthetic Alpha-Tocopherol (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Beta-Tocopherol (mg)**Variable #** 30**Usage Notes:** none**Sas Name:** F60BTOCO**Sas Label:** Dietary Beta-Tocopherol (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Delta-Tocopherol (mg)**Variable #** 31**Usage Notes:** none**Sas Name:** F60DTOCO**Sas Label:** Dietary Delta-Tocopherol (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Gamma-Tocopherol (mg)**Variable #** 32**Usage Notes:** none**Sas Name:** F60GTOCO**Sas Label:** Dietary Gamma-Tocopherol (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Vitamin K (NDS Value) (mcg)**Variable #** 33**Usage Notes:** none**Sas Name:** F60VITK**Sas Label:** Dietary Vitamin K (NDS Value) (mcg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Calcium (mg)**Variable #** 34**Usage Notes:** none**Sas Name:** F60CALC**Sas Label:** Dietary Calcium (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous

Dietary Copper (mg)**Variable #** 35**Usage Notes:** none**Sas Name:** F60COPPR**Sas Label:** Dietary Copper (mg)**Categories:** Computed Variables
Diet: FFQ**Type:** Continuous



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Dietary Iron (mg)

Variable # 36

Usage Notes: none

Sas Name: F60IRON

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Iron (mg)

Type: Continuous

Dietary Magnesium (mg)

Variable # 37

Usage Notes: none

Sas Name: F60MAGN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Magnesium (mg)

Type: Continuous

Dietary Manganese (mg)

Variable # 38

Usage Notes: none

Sas Name: F60MANGN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Manganese (mg)

Type: Continuous

Dietary Phosphorous (mg)

Variable # 39

Usage Notes: none

Sas Name: F60PHOS

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Phosphorous (mg)

Type: Continuous

Dietary Potassium (mg)

Variable # 40

Usage Notes: none

Sas Name: F60POTAS

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Potassium (mg)

Type: Continuous

Dietary Selenium (mcg)

Variable # 41

Usage Notes: none

Sas Name: F60SELEN

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Selenium (mcg)

Type: Continuous

Dietary Sodium (mg)

Variable # 42

Usage Notes: none

Sas Name: F60SODUM

Categories: Computed Variables
Diet: FFQ

Sas Label: Dietary Sodium (mg)

Type: Continuous



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Dietary Zinc (mg)

Variable #	43	Usage Notes:	none
Sas Name:	F60ZINC	Categories:	Computed Variables Diet: FFQ
Sas Label:	Dietary Zinc (mg)		
Type:	Continuous		

Dietary Alpha-Carotene (mcg)

Variable #	44	Usage Notes:	none
Sas Name:	F60ACARO	Categories:	Computed Variables Diet: FFQ
Sas Label:	Dietary Alpha-Carotene (mcg)		
Type:	Continuous		

Dietary Beta-Carotene (mcg)

Variable #	45	Usage Notes:	none
Sas Name:	F60BETA	Categories:	Computed Variables Diet: FFQ
Sas Label:	Dietary Beta-Carotene (mcg)		
Type:	Continuous		

Dietary Beta-Cryptoxanthin (mcg)

Variable #	46	Usage Notes:	none
Sas Name:	F60BCRYP	Categories:	Computed Variables Diet: FFQ
Sas Label:	Dietary Beta-Cryptoxanthin (mcg)		
Type:	Continuous		

Dietary Lycopene (mcg)

Variable #	47	Usage Notes:	none
Sas Name:	F60LYCO	Categories:	Computed Variables Diet: FFQ
Sas Label:	Dietary Lycopene (mcg)		
Type:	Continuous		

Dietary Lutein+Zeaxanthin (mcg)

Variable #	48	Usage Notes:	none
Sas Name:	F60LUTZX	Categories:	Computed Variables Diet: FFQ
Sas Label:	Dietary Lutein+Zeaxanthin (mcg)		
Type:	Continuous		